

WHAT IS CLAIMED IS:

1. A lighting apparatus comprising:

a light source;

an optical member which is placed in front of said light source; and

a reflection member which is placed in such a way as to cover the back of said light source and a front space between said light source and said optical member, and reflects light irradiated from said light source forward,

wherein said optical member comprises:

a lens section which is placed on and close to the optical axis on the entrance surface side of said optical member and has positive refracting power; and

a reflecting section which is placed to peripheral side of said lens section, provided closer to the optical axis than the area through which the light reflected by the part of said reflection member covering said front space passes, and reflects light from said light source forward.

2. The lighting apparatus according to claim 1, wherein said reflecting section is shaped like a prism having a refracting surface that receives light incident from said light source and a reflecting surface that reflects light incident from said refracting surface.

3. The lighting apparatus according to claim 1, wherein the refracting surface of said reflecting section is constructed of a flat surface whose gradient with respect to the optical axis is 4° or less.

4. The lighting apparatus according to claim 1, wherein the reflecting surface of said reflecting section is constructed of a flat surface or curved surface.

5. The lighting apparatus according to claim 1, wherein a pair or plurality of pairs of said reflecting sections is provided on both sides of the optical axis.

6. The lighting apparatus according to claim 1, wherein said reflecting section is shaped in such a way that the irradiation range of light irradiated through said reflecting section and the irradiation range of light irradiated through said lens section and said reflection member substantially overlap with each other.

7. The lighting apparatus according claim 1; wherein an angle α formed by light emitted from the center of said light source and incident on said reflecting section with respect to the optical axis is included in a range of $20^\circ \leq \alpha \leq 70^\circ$.

8. The lighting apparatus according to claim 1, wherein the area covering said front space of said reflection member is a curved surface of the second order.

9. The lighting apparatus according to claim 1, wherein the area covering said front space of said reflection member is a semi-ellipsoidal curved surface whose focal point coincides with the center of said light source.

10. The lighting apparatus according to claim 1, wherein said light source has a cylindrical shape and the lens section of said optical member is a cylindrical lens or toric lens having positive refracting power within the plane perpendicular to the longitudinal direction of said light source.

11. The lighting apparatus according to claim 1, wherein the irradiation range of light irradiated from said optical member is made variable by changing a relation of positions in the direction of the optical axis between said light source and said optical member.

12. An image pickup apparatus comprising:
a light source;
an optical member which is placed in front of said light source; and

a reflection member which is placed in such a way as to cover the back of said light source and a front space between said light source and said optical member and reflects light emitted from said light source forward,

wherein said optical member comprises:

a lens section which is placed on and close to the optical axis on the entrance surface side of said optical member and has positive refracting power; and

a reflecting section which is placed to peripheral side of said lens section and closer to the optical axis than the area through which the light reflected by the part of said reflection member covering said front space passes, and reflects light from said light source forward.

13. The image pickup apparatus according to claim 12, wherein said reflecting section is shaped like a prism having a refracting surface that receives light incident from said light source and a reflecting surface that reflects light incident from said refracting surface.

14. The image pickup apparatus according to claim 12, wherein

the refracting surface of said reflecting section is constructed of a flat surface whose gradient with respect to the optical axis is 4° or less.

15. The image pickup apparatus according to claim 12, wherein the reflecting surface of said reflecting section is constructed of a flat surface or curved surface.

16. The image pickup apparatus according to claim 12, wherein a pair or plurality of pairs of said reflecting sections is provided on both sides of the optical axis.

17. The image pickup apparatus according to claim 12, wherein the shape of said reflecting section is determined in such a way that the irradiation range of light irradiated through said reflecting section and the irradiation range of light irradiated through said lens section and said reflection member substantially overlap with each other.

18. The image pickup apparatus according to claim 12, wherein an angle α formed by light emitted from the center of said light source and incident on said reflecting section with respect to the optical axis is within a range of $20^\circ \leq \alpha \leq 70^\circ$.

19. The image pickup apparatus according to claim 12, wherein the area of said reflection member covering said front space is a surface of second order.

20. The image pickup apparatus according to claim 12, wherein the area of said reflection member covering said front space is a semi-ellipsoidal curved surface whose focal point coincides with the center of said light source.

21. The image pickup apparatus according to claim 12, wherein said light source has a cylindrical shape and the lens section of said optical member is a cylindrical lens or toric lens having positive refracting power within the plane perpendicular to the longitudinal direction of said light source.

22. The image pickup apparatus according to claim 12, having a card type configuration.

23. The image pickup apparatus according to claim 12, wherein the irradiation range of light emitted from said optical member is made variable by changing a relation of positions between said light source and said optical member in the direction of the optical axis.